

ABSTRACT OF THE DISCLOSURE

A chain conveyor assembly having the combination of a polymeric material and a hard diamond-like coating at the frictional interface of the chain links. The conveyor chain preferably includes male and female links connected to one another by connector pins. The shaft of each connector pin is coated with a diamond-like coating having high hardness, low friction and low wear characteristics. Opposite ends of the connector pins are connected to the female link while the shaft of the connector pin passes through the male link. A polymeric bushing is fitted to the male link in engagement with the shaft of the connector pin. Accordingly, relative movement between the links occurs at the interface of the DLC connector pin and the polymeric bushing.

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